

EL7



INSTANTANEOUS ELECTRIC STEAM GENERATOR

RANGE

from 16 kW (20 kg/h) to 180 kW (250 kg/h)

WORKING PRESSURE

4.5 bar (on request up to 8.5 bar)

WORKING TEMPERATURE

170°C

MODELS

20

30

80

160

250

DESCRIPTION

Electric steam generator, 99% efficiency ⁽¹⁾.

EL7 is an instantaneous electric steam generator. Designed for a working pressure of 4.5 bar (8.5 bar upon request) and a steam production from 20 up to 250 kg/h (15 – 180 kW). The conformance to the essential safety requirements demanded by the European Pressure Equipment Directive 2014/68/UE (PED) is guaranteed by the CE mark.

Design features:

The steam generator is composed of one or more pressure vessels having a variable number of electric resistors on board. Such configuration allows the generator to modulate the steam production and the absorbed power.

Installation of the generator is as quick as easy because only 4 connections are necessary: electric power supply, steam supply, drain and water inlet. Water feed can be connected directly to the water mains or to a condensate tank. The control panel manages automatically the steam generator and has an intuitive operational. Because of the vertical design, the EL7 has a very small footprint.

Standard equipment: ⁽²⁾

- Steam main valve.
- n. 1 safety valve.
- n. 1 reflecting level indicator with cut-off cocks.
- n. 1 pressure gauge.
- n. 1 safety pressure switch.
- n. 1 safety thermostat
- n. 1 water automatic level regulation.
- n. 1 feeding group complete with 1 pump.
- Valve assembly for feeding circuit, with relevant pipes already fitted.
- n. 1 manual bottom blowdown valve.
- Control panel board 230/400 V – 3 phases – 50/60 Hz
- Document folder enclosing:
 - Manufacturer's Declaration of Conformity
 - Installation, operation and service manuals.
 - Certificates of safety components.
 - Control board's electric schemes and related Declaration of Conformity.
 - Water characteristics: requirements concerning the quality of water supply, the water in the boiler, frequency and type of sample tests to do.

(1) This value is intended without economizer and may change according working pressure and load conditions.

(2) The quantity and the model may vary according to the configuration.

TECHNICAL DATA

| Model | Steam production | Power input | Standard Working pressure | Optional Working pressure * | Water content |
|------------|------------------|-------------|---------------------------|-----------------------------|---------------|
| | kg/h | kW | bar | bar | l |
| 20 | 20 | 15 | 4.5 | 7 | 16 |
| 30 | 30 | 22 | 4.5 | 7 | 24 |
| 80 | 83 | 60 | 4.5 | 8.5 | 55 |
| 160 | 166 | 120 | 4.5 | 8.5 | 2 x 55 |
| 250 | 249 | 180 | 4.5 | 8.5 | 3 x 55 |

* higher working pressure available on request

DIMENSIONS

| Model | W | L | H | Feed water | Blow down | Steam connection | Condensate return | Empty weight |
|------------|------|-----|------|------------|-----------|------------------|-------------------|--------------|
| | mm | mm | mm | | | | | kg |
| 20 | 550 | 440 | 980 | 3/8" | 1/2" | 1/2" | 1/2" | 72 |
| 30 | 580 | 660 | 730 | 1/2" | 1/2" | 1/2" | 1/2" | 85 |
| 80 | 830 | 830 | 570 | 1/2" | 1/2" | 1/2" | 1/2" | 114 |
| 160 | 830 | 830 | 1395 | 1/2" | 1/2" | 1/2" | 1/2" | 237 |
| 250 | 1160 | 950 | 1670 | 1/2" | 1/2" | 1/2" | 1/2" | 325 |

